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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SABIHA GAZI Examiner #: 74141 Date: 8/31/06
 Art Unit: 1616 Phone Number: 2-0622 Serial Number: 10/816617
 Location (Bldg/Room#): 4445 (Mailbox #): 4C70 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

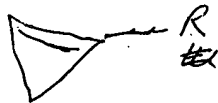
Title of Invention: Technique for effectively treating an
agricultural product
 Inventors (please provide full names): KASHIMURA, YOSHIKI with 1-Subs. cycloprop
et al.
 Earliest Priority Date: 3/36/2004

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

cls 1-5

Please search for 1-meth
cyclopropene

Note R can be H.

Search for especially 1-methycyclopropene
 Known as 1-MCP for suppressing the deterioration
 of agricultural product when used
under reduced pressure.

Please see cls 3 & 4.

Thank you

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Type of Search

Vendors and cost where applicable

Searcher: _____

____ NA Sequence (#)

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Date Completed: 8/31/06

____ Litigation

____ Commercial _____ Oligomer _____ Score/Length
 ____ Interference _____ SPDI _____ Encode/Transl
 ____ Other (specify)

Searcher Prep & Review Time: _____

____ Fulltext

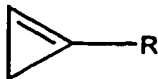
Online Time: _____

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10/8/2017

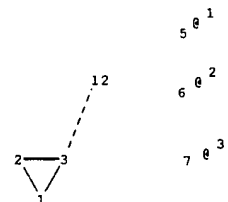
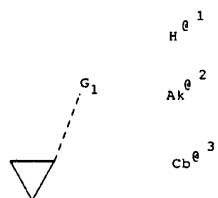
We Claim

1. A method of suppressing the deterioration of the quality of an agricultural product, comprising a step of contact-treating the agricultural product under reduced pressure conditions with a cyclopropene compound having the following formula:



wherein, R is hydrogen, or substituted or unsubstituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, phenyl or naphthyl group; and substituents are independently halogen, alkoxy, or substituted or unsubstituted phenoxy.

2. The method of suppressing deterioration of the quality of an agricultural product according to claim 1, wherein R of the cyclopropene compound is (C1-C8)alkyl.
3. The method of suppressing deterioration of the quality of an agricultural product according to claim 1, wherein the agricultural product is selected from the group consisting of fruit, vegetables, and ornamental plants.
4. The method of suppressing deterioration of the quality of an agricultural product according to claim 1, wherein the agricultural product is a fruit of a plant selected from the group consisting of an apple, a pear, a persimmon, a peach, a plum, a melon, and a Japanese apricot.
5. The method of suppressing deterioration of the quality of an agricultural product according to claim 1, wherein the reduced pressure condition is a pressure of 50 kPa or less.



chain nodes :

5 6 7 12

ring nodes :

1 2 3

chain bonds :

3-12

ring bonds :

1-2 1-3 2-3

exact/norm bonds :

1-2 1-3 2-3 3-12

isolated ring systems :

containing 1 :

G1:[*1],[*2],[*3]

Connectivity :

1:2 E exact RC ring/chain 2:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 5:CLASS 6:CLASS 7:Atom 12:CLASS